AMENDMENTS TO THE CLAIMS:

Please cancel claims 4, 5 and 8 without prejudice or disclaimer.

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A universal mandrel system comprising:
- a core mandrel having an outside diameter;
- a plurality of adapter sleeves each having an inside diameter sized to engage the core mandrel outside diameter, the plurality of adapter sleeves comprising varying exterior dimensions, wherein only one of the adapter sleeves engages the core mandrel at a time, the one adapter sleeve being selected to accommodate varying size part diameters; and

an interlocking mechanism secured between the core mandrel and a-the selected one of the adapter sleeves, the interlocking mechanism preventing the selected adapter sleeve from rotating relative to the core mandrel.

- 2. (Currently Amended) A universal mandrel <u>system</u> according to claim 1, wherein the interlocking mechanism comprises a lug formed on either the outside diameter of the core mandrel or the inside diameter of the adapter sleeve, and a slot formed in the other of the outside diameter of the core mandrel or the inside diameter of the adapter sleeve, the lug engaging the slot when the adapter sleeve is fitted to the core mandrel.
- 3. (Currently Amended) A universal mandrel <u>system</u> according to claim 2, wherein the lug is formed on the inside diameter of the adapter sleeve, and wherein the slot is formed in the outside diameter of the core mandrel.
 - 4-5. (Canceled)

- 6. (Currently Amended) A universal mandrel <u>system</u> according to claim 1, wherein the adapter sleeve is structurally configured to serve as an interface connection with another metallic component.
- 7. (Currently Amended) A universal mandrel <u>system</u> according to claim 1, wherein the adapter sleeve is structurally configured to serve as an intermediate expansion rate medium to buffer a thermal mismatch between a composite component and an interfaced metallic component.
 - 8. (Canceled)
- 9. (Currently Amended) A universal mandrel <u>system</u> according to claim 1, wherein the adapter sleeve is constructed of tool steel.
 - 10. (Currently Amended) A universal mandrel <u>system</u> comprising: a core mandrel having an outside diameter;

a plurality of adapter sleeves each having an inside diameter sized to engage the core mandrel outside diameter, the plurality of adapter sleeves comprising varying exterior dimensions, wherein only one of the adapter sleeves engages the core mandrel at a time, the one adapter sleeve being selected to accommodate varying size part diameters; and

an interlocking mechanism secured between the core mandrel and a-the selected one of the adapter sleeves, the interlocking mechanism preventing the selected adapter sleeve from rotating relative to the core mandrel,

wherein a thermal expansion rate of the adapter sleeves is lower than that of the core mandrel.

11. (Currently Amended) A universal mandrel <u>system</u> according to claim 10, wherein the interlocking mechanism comprises a lug formed on either the outside diameter of the core

mandrel or the inside diameter of the adapter sleeve, and a slot formed in the other of the outside

diameter of the core mandrel or the inside diameter of the adapter sleeve, the lug engaging the

slot when the adapter sleeve is fitted to the core mandrel.

12. (Currently Amended) A universal mandrel system according to claim 11, wherein

the lug is formed on the inside diameter of the adapter sleeve, and wherein the slot is formed in

the outside diameter of the core mandrel.

13. (Currently Amended) A universal mandrel system according to claim 10, wherein

the interlocking mechanism comprises a flange formed on one edge of the adapter sleeve, the

flange having an opening therein, and a connector sized to fit in the opening and secure the

flange to an axial face of the core mandrel.

14. (Currently Amended) A universal mandrel system according to claim 13, wherein

the connector comprises a pin or a bolt.

15. (Canceled)

16. (Currently Amended) A universal mandrel system according to claim 10, wherein

the adapter sleeve is constructed of tool steel.

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